Performance Data Sheet

AKA5483EXA

General Information

Model	AKA5483EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	4280	5000					
	Watts	596	542					
	Amps	6.82	6.84					
	Lb/h							
-10	Btu/h	3900	4400	4990				
	Watts	616	572	527				
	Amps	6.64	6.66	6.72				
	Lb/h							
-5	Btu/h	3810	4100	4470	4930			
	Watts	633	599	564	528			
	Amps	6.50	6.55	6.61	6.71			
	Lb/h							
0	Btu/h	3970	4070	4240	4480	4810		
	Watts	647	623	598	572	545		
	Amps	6.42	6.48	6.57	6.68	6.81		
	Lb/h							
5	Btu/h	4360	4290	4280	4320	4440		
	Watts	659	644	629	613	595		
	Amps	6.37	6.47	6.58	6.70	6.85		
	Lb/h							
10	Btu/h	4950	4730	4550	4420	4340	4330	4390
	Watts	667	662	657	650	642	634	624
	Amps	6.36	6.49	6.62	6.78	6.94	7.13	7.34
	Lb/h		1.04	3.21	5.72	8.59	11.9	15.7
15	Btu/h	5730	5370	5040	4740	4500	4300	4170
	Watts	674	678	682	685	687	688	688
	Amps	6.38	6.54	6.71	6.89	7.08	7.30	7.52
	Lb/h	20.0	20.4	21.0	21.8	22.9	24.3	26.1
20	Btu/h	6650	6170	5710	5280	4870	4510	4200
	Watts	678	691	704	716	728	739	749
	Amps	6.41	6.61	6.82	7.04	7.26	7.50	7.76
	Lb/h	41.2	40.2	39.3	38.5	38.0	37.7	37.7

25	Btu/h	7710	7120	6550	5990	5450	4940	4460
	Watts	680	702	724	746	767	787	806
	Amps	6.45	6.70	6.95	7.21	7.47	7.75	8.03
	Lb/h	62.5	60.2	58.0	55.8	53.7	51.9	50.2
30	Btu/h	8860	8190	7520	6850	6190	5550	4930
	Watts	680	711	742	773	803	832	861
	Amps	6.49	6.80	7.10	7.40	7.71	8.02	8.34
	Lb/h	83.7	80.3	76.8	73.4	69.9	66.6	63.4
35	Btu/h	10100	9360	8600	7840	7080	6330	5580
	Watts	679	718	758	797	836	875	913
	Amps	6.54	6.90	7.25	7.60	7.96	8.31	8.67
	Lb/h	105	100	95.7	91.1	86.4	81.7	77.1
40	Btu/h	11400	10600	9770	8940	8090	7240	6390
	Watts	676	724	772	820	868	916	963
	Amps	6.57	6.99	7.40	7.81	8.22	8.62	9.02
	Lb/h	125	120	114	109	103	97.0	91.1
45	Btu/h	12700	11900	11000	10100	9200	8270	7330
	Watts	672	728	785	841	898	954	1010
	Amps	6.58	7.06	7.54	8.01	8.47	8.93	9.39
	Lb/h	145	139	133	126	119	112	105
50	Btu/h	14000	13100	12300	11300	10400	9380	8370
	Watts	667	731	796	861	926	991	1060
	Amps	6.56	7.12	7.67	8.20	8.73	9.24	9.75
	Lb/h	164	157	150	143	135	127	119
55	Btu/h	15300	14400	13500	12600	11600	10600	9480
	Watts	661	733	806	879	952	1030	1100
	Amps	6.51	7.15	7.77	8.38	8.97	9.55	10.1
	Lb/h	182	175	167	159	151	142	133

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.673666E+03	8.186101E+02	6.333265E+00	-7.294835E+01
C2	2.618014E+02	-1.196474E+01	-7.579651E-02	6.192791E+00
C3	-1.724437E+01	-2.046452E+00	-1.371634E-03	3.416440E-01
C4	1.798964E+00	-2.930405E-02	-4.944753E-06	-2.492330E-03
C5	-1.641867E+00	1.707180E-01	1.058678E-03	-2.274078E-02
C6	1.100013E-02	3.638994E-04	2.660511E-06	1.230420E-04
C7	-3.408164E-02	2.509860E-04	-9.881383E-06	-2.603012E-04
C8	3.487595E-02	-3.301329E-04	1.012189E-05	2.574638E-04
C9	-1.162569E-02	1.333416E-04	-3.375647E-06	-8.292549E-05
C10	1.181927E-03	-1.944831E-05	3.470216E-07	7.808568E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature